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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/519,946	12/29/2004	Lee D Miller	540-545	5081
23117 7.	590 03/23/2006		EXAMINER	
	ANDERHYE, PC LEBE ROAD, 11TH FLO	EL SHAMMAA, MARY A		
ARLINGTON,		SK .	ART UNIT PAPER NUMBER	
·			2883	

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/519,946	MILLER ET AL.	(and		
Office Action Summary	Examiner	Art Unit			
•	Mary A. El-Shammaa	2883			
The MAILING DATE of this communication app					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC B(a). In no event, however, may a re rill apply and will expire SIX (6) MON cause the application to become AB	CATION. Sply be timely filed If HS from the mailing date of this communication ANDONED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on This action is FINAL. 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matte		s		
Disposition of Claims		•			
4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine	r election requirement. r.				
10) ☐ The drawing(s) filed on 29 December 2004 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	drawing(s) be held in abeyar ion is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121((d).		
Priority under 35 U.S.C. § 119					
 12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/04.	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 			

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DETAILED ACTION

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).

- "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (1) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Novotny (US 6,483,962 B1).

Regarding claims 1, 2, and 4, Novotny discloses a signal processing system comprising at least two independent processing channels, a plurality of optical fibers with their one ends oriented to receive electromagnetic radiation, and couplers interconnecting the other ends of said optical fibers in parallel whereby electromagnetic radiation transmitted by said optical fibers is coupled together and then directed into each of the independent processing channels, wherein at least one of the independent processing channels includes a processing board with an output to a signal detector and is arranged to transmit the electromagnetic radiation in sequence to a signal detector input (col. 3, lines 28-66; col. 4, lines 10-56; col. 5, lines 28-50; col. 8, lines 44-62; col. 11, line 66 through col. 12, line 32; col. 12, line 55 through col. 13, line 27; col. 16, lines 1-50).

Regarding claim 3, Novotny discloses at least one o processing boards including signal processing components selected from the group comprising electrical and optical signal processing components (col. 3, lines 28-66; col. 4, lines 10-56; col. 5, lines 28-50; col. 8, lines 44-62; col. 11, line 66 through col. 12, line 32; col. 12, line 55 through col. 13, line 27; col. 16, lines 1-50).

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Regarding claim 5, Novotny discloses another of said independent processing channels being arranged to transmit the electronic radiation in sequence to another signal detector input, and said independent processing channels incorporate different optical delays to minimize any range/position ambiguity (col. 3, lines 28-66; col. 4, lines 10-56; col. 5, lines 28-50; col. 8, lines 44-62; col. 11, line 66 through col. 12, line 32; col. 12, line 55 through col. 13, line 27; col. 16, lines 1-50).

Regarding claim 6, Novotny discloses one of said independent processing channels being arranged to transmit electromagnetic radiation in sequence to a signal detector unit, and another of said independent processing channels is arranged to transmit the electromagnetic radiation to a processing board configured to assess the range and depth of a target (col. 3, lines 28-66; col. 4, lines 10-56; col. 5, lines 28-50; col. 8, lines 44-62; col. 11, line 66 through col. 12, line 32; col. 12, line 55 through col. 13, line 27; col. 16, lines 1-50).

Regarding claim 7, Novotny discloses two of said independent processing channels containing different signal detectors (col. 3, lines 28-66; col. 4, lines 10-56; col. 5, lines 28-50; col. 8, lines 44-62; col. 11, line 66 through col. 12, line 32; col. 12, line 55 through col. 13, line 27; col. 16, lines 1-50).

Regarding claim 8, Novotny discloses at least one of said independent processing channels being arranged to feed signals into at least one other independent processing channel (col. 3, lines 28-66; col. 4, lines 10-56; col. 5, lines 28-50; col. 8, lines 44-62; col. 11, line 66 through col. 12, line 32; col. 12, line 55 through col. 13, line 27; col. 16, lines 1-50).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary A. El-Shammaa whose telephone number is 571.272.2469. The examiner can normally be reached on M-F (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571.272.2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MAE March 16, 2006 Frank G. Font
Supervisory Patent Examiner
Technology Center 2800

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